

## TRWD Stream Trailer Virtual Simulation Lesson Plan

\*Teachers, please email <u>watersheds@trwd.com</u> to obtain the answer key.

TEKS (4 <sup>th</sup>	Science 4.3A: analyze, evaluate, and critique scientific explanations by using
Grade)	evidence, logical reasoning, and experimental and observational testing
	Science 4.3B: represent the natural world using models such as the water cycle and
	stream tables and identify their limitations, including accuracy and size
	Science 4.7B: observe and identify slow changes to Earth's surface caused by
	weathering, erosion, and deposition from water, wind, and ice
Objectives	Identify the components of a river or stream system.
1	Define watershed.
	Observe and describe the processes that shape rivers and streams over
	time.
Key Questions	What are the <u>components</u> of a river or stream system?
ne, questions	What is a watershed?
	<ul> <li>How are rivers and streams shaped over time though natural <u>processes</u>?</li> </ul>
Materials	TRWD Exploring Watersheds Video: https://youtu.be/ -4bXF3vbVo
Waterials	Video Worksheet (available as editable Word document or fillable PDF)
Procedure	This lesson may be completed in-person or online.
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	The learner will read the worksheet to prepare for questions.
	The learner will watch the video, pausing where indicated to answer questions.
	Questions not associated with pause cues in the video are timestamped in the
	worksheet if the learner needs to rewind to review.
Demonstration	The learner will complete the associated worksheet with at least 90% accuracy.
of Learning	,
Extensions	The learner can find out what watershed they live in.
	o https://trwdmaps.maps.arcgis.com/apps/webappviewer/index.htm
	l?id=76fd82a6fd064313a9371f29de3a6fb2
	The learner can write a journal about actions they can take to help keep
	their local river or stream clean.
	The learner can build a model of a watershed using paper or tinfoil and a
	spray bottle.
	o https://water.unl.edu/documents/Crumpled%20Watershed%20Mo
	del%20opt.pdf
	o https://www.sariverauthority.org/sites/default/files/2019-
	07/building-a-watershed-model-activity 11.pdf
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